

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 09/421,971A  
Source: FW/6  
Date Processed by STIC: 2/11/05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 07/11/2005

PATENT APPLICATION: US/09/421,971A

TIME: 13:09:29

Input Set : A:\Salk2350.app

Output Set: N:\CRF4\07112005\I421971A.raw

```

4 <110> APPLICANT: GAGE, FRED
5     SUHR, STEVEN
6     GIL, ELAD
7     SENUT, MARIE-CLAUDE
9 <120> TITLE OF INVENTION: HORMONE RECEPTOR FUNCTIONAL DIMERS AND METHODS OF THEIR USE
12 <130> FILE REFERENCE: SALK2350
15 <140> CURRENT APPLICATION NUMBER: 09/421,971A
16 <141> CURRENT FILING DATE: 1999-10-20
18 <160> NUMBER OF SEQ ID NOS: 80
20 <170> SOFTWARE: PatentIn Ver. 3.3
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 67
24 <212> TYPE: PRT
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic binding
29     domain of the steroid/thyroid hormone superfamily
30     of receptor
32 <220> FEATURE:
33 <221> NAME/KEY: MOD_RES
34 <222> LOCATION: (2)..(3)
35 <223> OTHER INFORMATION: Variable amino acid
37 <220> FEATURE:
38 <221> NAME/KEY: MOD_RES
39 <222> LOCATION: (5)..(6)
40 <223> OTHER INFORMATION: Variable amino acid
42 <220> FEATURE:
43 <221> NAME/KEY: MOD_RES
44 <222> LOCATION: (8)
45 <223> OTHER INFORMATION: Variable amino acid
47 <220> FEATURE:
48 <221> NAME/KEY: MOD_RES
49 <222> LOCATION: (10)
50 <223> OTHER INFORMATION: Variable amino acid
52 <220> FEATURE:
53 <221> NAME/KEY: MOD_RES
54 <222> LOCATION: (12)
55 <223> OTHER INFORMATION: Variable amino acid
57 <220> FEATURE:
58 <221> NAME/KEY: MOD_RES
59 <222> LOCATION: (14)..(17)
60 <223> OTHER INFORMATION: Variable amino acid
62 <220> FEATURE:

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63 <221> NAME/KEY: MOD\_RES  
 64 <222> LOCATION: (19)..(20) ✓  
 65 <223> OTHER INFORMATION: Variable amino acid  
 67 <220> FEATURE:  
 68 <221> NAME/KEY: MOD\_RES  
 69 <222> LOCATION: (23) ✓  
 70 <223> OTHER INFORMATION: Variable amino acid  
 72 <220> FEATURE:  
 73 <221> NAME/KEY: MOD\_RES  
 74 <222> LOCATION: (26) ✓  
 75 <223> OTHER INFORMATION: Variable amino acid  
 77 <220> FEATURE:  
 78 <221> NAME/KEY: MOD\_RES  
 79 <222> LOCATION: (28)..(34) ✓  
 80 <223> OTHER INFORMATION: Variable amino acid  
 82 <220> FEATURE:  
 83 <221> NAME/KEY: MOD\_RES  
 84 <222> LOCATION: (36)..(43) ✓  
 85 <223> OTHER INFORMATION: Variable amino acid  
 87 <220> FEATURE:  
 88 <221> NAME/KEY: MOD\_RES  
 89 <222> LOCATION: (45)..(47) ✓  
 90 <223> OTHER INFORMATION: Variable amino acid  
 92 <220> FEATURE:  
 93 <221> NAME/KEY: MOD\_RES  
 94 <222> LOCATION: (49)..(50) ✓  
 95 <223> OTHER INFORMATION: Variable amino acid  
 97 <220> FEATURE:  
 98 <221> NAME/KEY: MOD\_RES  
 99 <222> LOCATION: (52)..(53) ✓  
 100 <223> OTHER INFORMATION: Variable amino acid  
 102 <220> FEATURE:  
 103 <221> NAME/KEY: MOD\_RES  
 104 <222> LOCATION: (55)..(56) ✓  
 105 <223> OTHER INFORMATION: Variable amino acid  
 107 <220> FEATURE:  
 108 <221> NAME/KEY: MOD\_RES  
 109 <222> LOCATION: (59)..(60) ✓  
 110 <223> OTHER INFORMATION: Variable amino acid  
 112 <220> FEATURE:  
 113 <221> NAME/KEY: MOD\_RES  
 114 <222> LOCATION: (63)..(65) ✓  
 115 <223> OTHER INFORMATION: Variable amino acid  
 117 <400> SEQUENCE: 1

W--> 118 Cys Xaa Xaa Cys Xaa Xaa Asp Xaa Ala Xaa Gly Xaa Tyr Xaa Xaa Xaa  
 119 1 5 10 15  
 121 Xaa Cys Xaa Xaa Cys Lys Xaa Phe Phe Xaa Arg Xaa Xaa Xaa Xaa Xaa  
 122 20 25 30  
 124 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Lys

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125          35          40          45
127 Xaa Xaa Arg Xaa Xaa Cys Xaa Xaa Cys Arg Xaa Xaa Lys Cys Xaa Xaa
128          50          55          60
130 Xaa Gly Met
131 65
134 <210> SEQ ID NO: 2
135 <211> LENGTH: 5
136 <212> TYPE: PRT
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein
141 linker
143 <400> SEQUENCE: 2
144 Gly Gly Gly Gly Ser
145 1 5
148 <210> SEQ ID NO: 3
149 <211> LENGTH: 10
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein
155 linker
157 <400> SEQUENCE: 3
158 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
159 1 5 10
162 <210> SEQ ID NO: 4
163 <211> LENGTH: 12
164 <212> TYPE: PRT
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein
169 linker
171 <400> SEQUENCE: 4
172 Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser
173 1 5 10
176 <210> SEQ ID NO: 5
177 <211> LENGTH: 14
178 <212> TYPE: PRT
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein
183 linker
185 <400> SEQUENCE: 5
186 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
187 1 5 10
190 <210> SEQ ID NO: 6
191 <211> LENGTH: 18
192 <212> TYPE: PRT
193 <213> ORGANISM: Artificial Sequence

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Input Set : A:\Salk2350.app

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195 &lt;220&gt; FEATURE:

196 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein

197 linker

199 &lt;400&gt; SEQUENCE: 6

200 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Ser Gly Ser Thr

201 1 5 10 15

203 Lys Gly

207 &lt;210&gt; SEQ ID NO: 7

208 &lt;211&gt; LENGTH: 14

209 &lt;212&gt; TYPE: PRT

210 &lt;213&gt; ORGANISM: Artificial Sequence

212 &lt;220&gt; FEATURE:

213 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein

214 linker

216 &lt;400&gt; SEQUENCE: 7

217 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly

218 1 5 10

221 &lt;210&gt; SEQ ID NO: 8

222 &lt;211&gt; LENGTH: 18

223 &lt;212&gt; TYPE: PRT

224 &lt;213&gt; ORGANISM: Artificial Sequence

226 &lt;220&gt; FEATURE:

227 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein

228 linker

230 &lt;400&gt; SEQUENCE: 8

231 Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr

232 1 5 10 15

234 Lys Gly

238 &lt;210&gt; SEQ ID NO: 9

239 &lt;211&gt; LENGTH: 14

240 &lt;212&gt; TYPE: PRT

241 &lt;213&gt; ORGANISM: Artificial Sequence

243 &lt;220&gt; FEATURE:

244 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein

245 linker

247 &lt;400&gt; SEQUENCE: 9

248 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Glu Phe

249 1 5 10

252 &lt;210&gt; SEQ ID NO: 10

253 &lt;211&gt; LENGTH: 5

254 &lt;212&gt; TYPE: PRT

255 &lt;213&gt; ORGANISM: Artificial Sequence

257 &lt;220&gt; FEATURE:

258 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein

259 linker

261 &lt;400&gt; SEQUENCE: 10

262 Ser Arg Ser Ser Gly

263 1 5

266 &lt;210&gt; SEQ ID NO: 11

## RAW SEQUENCE LISTING

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Input Set : A:\Salk2350.app

Output Set: N:\CRF4\07112005\I421971A.raw

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267 <211> LENGTH: 5
268 <212> TYPE: PRT
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein
273     linker
275 <400> SEQUENCE: 11
276 Ser Gly Ser Ser Cys
277   1           5
280 <210> SEQ ID NO: 12
281 <211> LENGTH: 28
282 <212> TYPE: PRT
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Description of Artificial Sequence: Trypsin sensitive
287     linker
289 <400> SEQUENCE: 12
290 Ala Met Gly Arg Ser Gly Gly Gly Cys Ala Gly Asn Arg Val Gly Ser
291   1           5           10           15
293 Ser Leu Ser Cys Gly Gly Leu Asn Leu Gln Ala Met
294           20           25
297 <210> SEQ ID NO: 13
298 <211> LENGTH: 7
299 <212> TYPE: PRT
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric protein
304     linker
306 <400> SEQUENCE: 13
307 Ala Met Gly Gly Ser Ala Met
308   1           5
311 <210> SEQ ID NO: 14
312 <212> TYPE: DNA
313 <211> LENGTH: 13
314 <213> ORGANISM: Artificial Sequence
316 <220> FEATURE:
317 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide encoding
318     SfiI recognition site
320 <220> FEATURE:
321 <221> NAME/KEY: modified_base
322 <222> LOCATION: (5)..(9)
323 <223> OTHER INFORMATION: a, t, c or g
325 <400> SEQUENCE: 14
W--> 326 ggccnnnnng gcc
329 <210> SEQ ID NO: 15
330 <211> LENGTH: 12
331 <212> TYPE: PRT
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/421,971A

DATE: 07/11/2005  
TIME: 13:09:30

Input Set : A:\Salk2350.app  
Output Set: N:\CRF4\07112005\I421971A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. ~~2,3,5,6,8,10,12,14,15,16,17,19,20,23,26,28,29,30,31,32,33~~

Seq#:1; Xaa Pos. ~~34,36,37,38,39,40,41,42,43,45,46,47,49,50,52,53,55,56,59~~

Seq#:1; Xaa Pos. ~~60,63,64,65~~

Seq#:14; N Pos. ~~5,6,7,8,9~~

**VERIFICATION SUMMARY**

DATE: 07/11/2005

PATENT APPLICATION: **US/09/421,971A**

TIME: 13:09:30

Input Set : **A:\Salk2350.app**Output Set: **N:\CRF4\07112005\I421971A.raw**

L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

M:341 Repeated in SeqNo=1

L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0